

INTERNATIONAL SEARCH REPORT

International application No.

PCT/CN2006/000210

A. CLASSIFICATION OF SUBJECT MATTER

H03F3/00 (2006.01) i

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC8: H03F3/30 H03F3/217 H03F3/38

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPODOC WPI CNPAT PAJ CNKI

pulse width modulation radiate electromagnetic interference switch+ signal differential channel? electrode? gate? amplifier nonlinear

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP1612934A1, INFINEON TECHNOLOGIES AG, 04 Jan 2006 (04.01.2006) the whole document	1-20
A	JP2005-229306A, MITSUBISHI ELECTRIC CORP, 25.Aug 2005 (25.08.2005) the whole document	1-20
A	US20050162223A1, YAMAHA CORPORATION, 28.Jul 2005 (28.07.2005) the whole document	1-20
A	US20040169553A1, YAMAHA CORPORATION, 02. Sep 2004 (02.09.2004) the whole document	1-20

Further documents are listed in the continuation of Box C.

See patent family annex.

* Special categories of cited documents:	
"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E" earlier application or patent but published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L" document which may throw doubts on priority claim (S) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search 02.Nov 2006 (02.11.2006)	Date of mailing of the international search report 28 · DEC 2006 (28 · 12 · 2006)
Name and mailing address of the ISA/CN The State Intellectual Property Office, the P.R.China 6 Xitucheng Rd., Jimen Bridge, Haidian District, Beijing, China 100088 Facsimile No. 86-10-62019451	Authorized officer  Telephone No. 86-10-62084932

INTERNATIONAL SEARCH REPORT
Information on patent family members

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Patent Documents referred in the Report	Publication Date	Patent Family	Publication Date
EP1612934A1	04 Jan 2006 (04.01.2006)	US2006006941A1	12 Jan 2006 (12.01.2006)
		CN1716762A	04 Jan 2006 (04.01.2006)
JP2005-229306A	25.Aug 2005 (25.08.2005)	none	
US20050162223A1	28.Jul 2005 (28.07.2005)	JP2005123949A	12.May 2005 (12.05.2005)
US20040169553A1	02. Sep 2004 (02.09.2004)	JP2004282714A	07. Oct 2004 (07.10.2004)
		US6956431B2	18. Oct 2005 (18.10.2005)
		TW200428760A	16. Dec 2004 (16.12.2004)